In the Claims:

Claims 1 to 10 (Canceled).

11. (Original) A method of inserting an exogenous nucleic acid into the genome of a non-Drosophilidae animal, said method comprising:

introducing into said animal a P-element derived vector comprising said exogenous nucleic acid under conditions sufficient for transposition to occur; whereby said exogenous nucleic acid is inserted into said genome.

12. (Original) A method of inserting an exogenous nucleic acid into the genome of a non-Drosophilidae animal, said method comprising:

introducing into said animal a vector according to Claim 1 under conditions sufficient for transposition to occur;

whereby said exogenous nucleic acid is inserted into said genome.

- 13. (Original) The method according to Claim 12, wherein said vector comprises a transposase domain.
- 14. (Original) The method according to Claim 12, wherein said method further comprises introducing a second vector comprising a transposase domain into said animal.
- 15. (Original) The method according to Claim 12, wherein said exogenous nucleic acid ranges in length from about 50 to 150,000 bp.
- 16. (Original) The method according to Claim 12, wherein said target animal is a vertebrate.

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- 17. (Original) The method according to Claim 12, wherein said vertebrate animal is a mammalian animal.
- 18. (Original) The method according to Claim 12, wherein said mammalian animal is a rodent.
- 19. (Original) A kit for use in inserting an exogenous nucleic acid into a target cell, said kit comprising:
- a P element derived vector comprising a pair of P element transposase recognized insertion sequences flanking at least one transcriptionally active gene in proximity to at least one of the P element transposase recognized isertion sequences.
- 20. (Original) The kit according to Claim 19, wherein said transcriptionally active gene comprises a coding sequence that is expressed under intracellular conditions.
- 21. (Original) The kit according to Claim 19, wherein said vector further comprises at least one endonuclease cleavage site positioned between said transposase recognized insertion sequences.
- 22. (Original) The kit according to Claim 21, wherein said endonuclease cleavage site is present in a polylinker.

Claims 23 to 26. (Canceled)

27. (Original) A non-Drosophilidae animal or cells derived from said animal that has P element transposase recognized insertion sequences integrated into the genome.

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- 28. (Original) The animal or cells according to Claim 27, wherein said animal is a vertebrate or said cells are vertebrate cells.
- 29. (Original) The animal or cells according to Claim 28, wherein said animal is a mammal or said cells are mammalian cells.
- 30. (Original) The animal or cells according to Claim 29, wherein said animal is a rodent or said cells are rodent cells.
- 31. (Original) A non-Drosophilidae animal or cells derived from said animal that have P element transposase recognized 31bp insertion sequences integrated into the genome.
- 32. (Original) The animal or cells according to Claim 31, wherein said animal is a vertebrate or said cells are vertebrate cells.
- 33. (Original) The animal or cells according to Claim 32, wherein said animal is a mammal or said cells are mammalian cells.
- 34. (Original) The animal or cells according to Claim 33, wherein said animal is a rodent or said cells are rodent cells.